



20
2132

IN THE

UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

APPLICANTS: PAUL C. KOCHER et al.

SEP 27 2004

SERIAL NO.: 10/005,105

Technology Center 2100

FILING DATE: December 03, 2001

TITLE: DIFFERENTIAL POWER ANALYSIS METHOD AND APPARATUS

EXAMINER: not yet known

CONFIRMATION NO: 1675

GROUP ART UNIT: 2132

ATTY. DKT. NO.: 44424162-8721

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below:

Dated: 22 September 2004

By: Michael C. Martensen
Michael C. Martensen, Reg. No. 46,901

MAIL STOP AMENDMENT
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

SIR:

Pursuant to the provisions of 37 CFR 1.56 and 1.97-1.98, Applicants hereby cite the references listed on the accompanying substitute PTO-1449 without inferring or suggesting, but instead expressly disclaiming any inference or suggestion, that any more pertinent reference exists. The filing of the information disclosure statement shall not be construed as a representation that a search has been made (37 CFR §1.97(g)), or an admission that the

Best Available Copy

information cited is, or is considered to be, material to patentability. Applicants enclose herewith copies of the all cited references. All references are in the English language.

The Commissioner is authorized to charge any fees required in connection with the submission of this IDS to deposit account number 19-3140. This sheet is being submitted in duplicate.

Respectfully submitted,

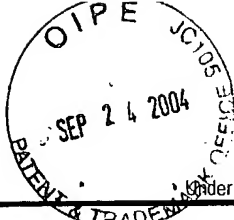
22 Feb 2004



Michael C. Martensen
Registration No. 46,901
Attorney under Rule 34(a)

SONNENSCHN NATH & ROSENTHAL LLP
P.O. Box 061080
Wacker Drive Station, Sears Tower
Chicago, IL 60606-1080
Tel.: (415) 882-0357

enclosures



Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 3				Complete if Known	
				Application Number	10/005,105
				Filing Date	December 3, 2001
				First Named Inventor	Paul C. Kocher
				Group Art Unit	2132
				Examiner Name	not yet known
				Attorney Docket Number	44424162-8721

RECEIVED
SEP 27 2004
Technology Center 2100

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-4,203,166	05/13/1980	Ehram et al.	
	AB	US-4,214,126	07/22/1980	Wipff	
	AC	US-4,243,890	01/06/1981	Miller et al.	
	AD	US-5,241,598	08/31/1993	Raith	
	AE	US-5,297,201	03/22/1994	Dunlavy	
	AF	US-5,341,423	08/23/1994	Nossen	
	AG	US-5,369,706	11/29/1994	Latka	
	AH	US-5,412,379	05/02/1995	Waraska et al.	
	AI	US-5,420,925	05/30/1995	Michaels	
	AJ	US-5,544,086	08/06/1996	Davis et al.	
	AK	US-5,552,776	09/03/1996	Wade et al.	
	AL	US-5,559,887	09/24/1996	Davis et al.	
	AM	US-5,600,324	02/04/1997	Reed et al.	
	AN	US-5,633,930	05/27/1997	Davis et al.	
	AO	US-5,733,047	03/31/1998	Furuta et al.	
	AP	US-5,761,306	06/02/1998	Lewis	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	AQ	EP 0 529 261 A2	03/03/1993	IBM Corp.		<input type="checkbox"/>
	AR	EP 0 582 395 A2	02/09/1994	Digital Equipment Corp.		<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Technology Center 2100

SEP 24 2004
O I P E AS
AB
AU
PATENT & TRADEMARK OFFICE

FOREIGN PATENT DOCUMENTS

Examiner
Signature

Date
Considered

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Best Available Copy

Please type a plus sign (+) inside this box ☐

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of info unless it contains a valid OMB control no.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 3

Complete if Known

Application Number	10/005,105
Filing Date	December 3, 2001
First Named Inventor	Paul C. Kocher
Group Art Unit	2132
Examiner Name	not yet known
Attorney Docket Number	44424162-8721

OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	CiteNo. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AV	American National Standards for Financial Services, secretariat - American Bankers Association (ANS/ABA x9.24-1997), "Financial Services Key Management," approved April 6, 1992, American National Standards Institute; pgs. 1-71	
	AW	JUENEMAN, Robert R., "Analysis of Certain Aspects of Output Feedback Mode", Satellite Business Systems, 1998; pgs. 99-127	
	AX	BAUER, Friedrich L., "Cryptology - Methods and Maxims", Technical University Munich, 1998; pgs. 31-48	
	AY	CONNOR, Doug (Technical Editor), "Cryptographic Techniques - Secure Your Wireless Designs", 01/18/96; pgs. 57-68	
	AZ	HORNAUER et al., "Markov Ciphers and Alternating Groups," Eurocrypt 91, 1991; pgs. 453-460	
	BA	KOBLITZ, "A Course in Number Theory and Cryptography" 2e, 1994, Chapter III; pgs. 53-77	
	BB	LAI et al., "Markov Ciphers and Differential Cryptanalysis," Eurocrypt 91, 1991; pgs. 17-38	
	BC	HACHEZ et. al. "Timing Attack: What Can Be Achieved By A Powerful Adversary?" 1999	
	BD	KOCHER, Paul C., "Cryptanalysis of Diffie-Hellman, RSA, DSS, and Other Systems Using Timing Attacks," Report 7 December 1995; pgs. 1-6	
	BE	KALISKI, Burt, "Timing Attacks on Cryptosystem," RSA Laboratories, Bulletin, Number 2, January 23, 1996	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Best Available Copy